

C1  
Conc'd

5 a second sensor array connected to said network comprising sensors  
6 capable of producing a second response in the presence of a physical stimulus;  
7 a computer connected to said network;  
8 a computer readable algorithm for execution by said computer for  
9 identifying said analyte, said computer readable algorithm comprising  
10 instructions for comparing said first response and said second  
11 response with a known response, and  
12 instructions for identifying an unknown analyte.

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C2

1 19. (Twice Amended) A method for transferring a combination of  
2 chemical and physical data over a computer network for identification of an analyte, said  
3 method comprising:  
4 transmitting sensory data from a first sensor array comprising sensors  
5 capable of producing a first response in the presence of a chemical stimulus to a remote  
6 location;  
7 transmitting physical data from a second sensor array comprising sensors  
8 capable of producing a second response in the presence of a physical stimulus to a remote  
9 location; and  
10 processing said sensory and physical data at said remote location for  
11 identification of an analyte, wherein said processing comprises  
12 comparing said first response and said second response with a known  
13 response, and  
14 identifying an unknown analyte.

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C3

1 23. (Amended) A distributed sensing system in a networked environment  
2 for identifying an analyte, said system comprising:  
3 a first sensor array connected to said network comprising sensors capable  
4 of producing a first response in the presence of a chemical stimulus, wherein said first  
5 sensor is connected with said network via a wireless connection;

(3)

6 a second sensor array connected to said network comprising sensors  
7 capable of producing a second response in the presence of a physical stimulus;  
8 a computer connected to said network;  
9 computer readable instructions for execution by said computer for  
10 identifying said analyte, said computer readable instructions comprising  
11 instructions for comparing said first response and said second  
12 response with a known response, and  
13 instructions for identifying an unknown analyte.

Cont

1 24. (Amended) A distributed sensing system in a networked environment  
2 for identifying an analyte, said system comprising:  
3 a first sensor array connected to said network comprising sensors capable  
4 of producing a first response in the presence of a chemical stimulus;  
5 a second sensor array connected to said network comprising sensors  
6 capable of producing a second response in the presence of a physical stimulus, wherein  
7 one of said sensors in said second sensor array is an infrared sensor;  
8 a computer connected to said network;  
9 computer readable instructions for execution by said computer for  
10 identifying said analyte, said computer readable instructions comprising  
11 instructions for comparing said first response and said second  
12 response with a known response, and  
13 instructions for identifying an unknown analyte.

1 25. (Amended) A distributed sensing system in a networked environment  
2 for identifying an analyte, said system comprising:  
3 a first sensor array connected to said network comprising sensors capable  
4 of producing a first response in the presence of a chemical stimulus, wherein said first  
5 sensor is connected with said network via a wireless connection;